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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/647,031	10/647,031 08/21/2003		Steven Kunitake	022041000810	1552
20350	7590	01/10/2006		EXAMINER	
		TOWNSEND AN	LANKFORD	LANKFORD JR, LEON B	
EIGHTH FL		RO CENTER	ART UNIT	PAPER NUMBER	
SAN FRAN	CISCO, C	CA 94111-3834	1651	<u></u>	

DATE MAILED: 01/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	Office Assign Commons	10/647,031	KUNITAKE ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Leon Lankford	1651					
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address					
WHIC - Extens after S - If NO   - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 (SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, the ply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	. ely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status								
1)🖂 🗆	Responsive to communication(s) filed on 24 O	ctober 2005						
•	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
•	<del></del>							
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositio	on of Claims		•					
4)🖂	Claim(s) 1,2,4-10,12-18 and 20 is/are pending	in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
6)🖂	5)⊠ Claim(s) <u>1-2, 4-10, 12-18 &amp; 20</u> is/are rejected.							
7) 🗌	_							
8)[	Claim(s) are subject to restriction and/or	r election requirement.	•					
Application	on Papers	·						
9)□ Т	The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correcti							
11)□ 7	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority u	nder 35 U.S.C. § 119	•						
•	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
	1. Certified copies of the priority documents have been received.							
:	2. Certified copies of the priority documents have been received in Application No							
;	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau	ı (PCT Rule 17.2(a)).	·					
* S	ee the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment	(s)							
1) Notice	of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail Da						
	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		atent Application (PTO-152)					
	No(s)/Mail Date	6)  Other:	·					

## **DETAILED ACTION**

Applicant's arguments filed 10/24/05 have been fully considered but they are not persuasive to overcome the obviousness rejection. All other rejections have been overcome.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

Applicant argues that one would not combine the references because one would not "know definitely" that RVC would work in an IHC reaction. There is however a

reasonable expectation of success because all that is needed in the process is a RNase inhibitor and RVC is a known effective inhibitor of RNAse- one of ordinary skill in the art would have been motivated to substitute any known RNase inhibitor into the reactions of Star and Schwartz with a reasonable expectation of inhibiting the RNase. Applicant also argues that the art suggests that RVC would not be compatible because Berger teaches the interference with translation. One of ordinary skill in the art would not read this as generally "inhibitory against proteinaceous complexes" and thus conclude that RVC has no place in an IHC reaction.

Accordingly, the claimed invention is still deemed prima facie obvious to one of ordinary skill in the art at the time the invention was made especially in the absence of evidence to the contrary.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the

various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-2, 4-10, 12-18 & 20 remain rejected under 35 U.S.C. 103(a) as being unpatentable over

Star et al(6790636) and Schwartz et al(6306612) in view of Berger et al(*Biochemistry* Vol 18 1979) and Kanz et al(*Exp Hematol*. 16 1988).

Star et al(Examples 3, 4 & 5) discloses methods of inhibiting RNase in immunohistochemically stained tissue using RNase inhibitors and then also combinations of the tissue and inhibitor. Schwartz et al (col 11, line 54) each an immunohistochemistry analysis wherein they specifically teach that "precaution against Rnases were taken." The prior art clearly teaches the desire to add RNase inhibitors to immunohistologically stained tissue to, obviously, prevent the degradation of RNA.

The references do not teach using RVC RNase inhibitors, however at the time the invention was made it would have been obvious to one of ordinary skill in the art to use RVC inhibitors to inhibit Rnases in the processes of Star and Schwartz because the use of RVC inhibitors is old and well known in the art as evidenced by Berger et al and Kanz et al and Berger and Kanz provide one of ordnary skill in the art with a reasonable

expectation of success in inhibiting the Rnases in the Star and Schwartz methods. It follows that a combination of the RVC and the stained tissue would also have been obvious.

Generally, differences in concentration or temperature will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration or temperature is critical.

"[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955) (Claimed process which was performed at a temperature between 40°C and 80°C and an acid concentration between 25% and 70% was held to be prima facie obvious over a reference process which differed from the claims only in that the reference process was performed at a temperature of 100°C and an acid concentration of 10%.); >see also Peterson, 315 F.3d at 1330, 65 USPQ2d at 1382 ("The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages.");< \*\* In re Hoeschele, 406 F.2d 1403, 160 USPQ 809 (CCPA 1969) (Claimed elastomeric polyurethanes which fell within the broad scope of the references were held to be unpatentable thereover because, among other reasons, there was no evidence of the criticality of the claimed ranges of molecular weight or molar proportions.). For more recent cases applying this principle, see Merck & Co. Inc. v. Biocraft Laboratories Inc., 874 F.2d 804, 10 USPQ2d 1843 (Fed. Cir.), cert. denied, 493 U.S. 975 (1989); In re Kulling, 897 F.2d 1147, 14 USPQ2d 1056 (Fed. Cir. 1990); and In re Geisler, 116 F.3d 1465, 43 USPQ2d 1362 (Fed. Cir. 1997).

Accordingly, the claimed invention was prima facie obvious to one of ordinary skill in the art at the time the invention was made especially in the absence of evidence to the contrary.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon Lankford whose telephone number is 571-272-0917. The examiner can normally be reached on Mon-Thu 7:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leon B Cankford Jr Primary Examiner

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